

**What is claimed is:**

An environment protection inner lining (sleeve) employing a multi-stage processing method, comprising steps of:

a), employ a shredder (slicer) to first shred fibrous raw materials from  
5 agricultural waste products, such as rice hulls, wheat hulls, sorghum  
hulls, peanut shells, bean pods, coconut hulls, rice stems, wheat stems,  
corn stems, sorghum stems, bean stems, cotton stems, timber, bamboo,  
etc., thereafter use a drier to dry the fibrous raw materials, subsequently,  
use a pulverizer to pulverize the fibrous raw materials, after pulverizing,  
10 main raw material is acquired in powder form, finally employ a vacuum  
packaging machine to pack the powder, thereby acquiring a finished  
product of the main raw material;

b), next, simultaneously place plant starch and water into a rabbling  
barrel and rabble, while at the same time heat and rabble the plant  
15 starch and water with a heater rabbling reactor, forming a thick form of  
paste thereof, subsequently, add an additive of liquid gelatin, thereby  
acquiring a finished product of the additive;

c), finally add the main raw material (approximately 70% by weight)  
and starch (approximately 17% by weight) to a rabbler, simultaneously  
20 spray the additive (approximately 13% by weight) into the rabbler with

an automatic spray machine and synchronously stir, after the main raw material, the additive and the starch have been thoroughly stirred, store in a stand-alone storage barrel, and employ an automatic feed gauging system to feed the mixed material into a (high temperature, high  
5 pressure) pressure molding machine, therefrom the (high temperature, high pressure) pressure molding machine thermally press molds the mixed material into a shape, thereby molding an environment protection inner lining (sleeve) of a prescribed shape, thereafter, extract the environment protection inner lining (sleeve) by means of a  
10 manipulator extractor, thus achieving effectiveness of a rapid shape-forming processing method.